HAVLICEK, Franjo Ivan   Physics   Yugoslav

"The determination of aspherical correcting surfaces," Phys. Abs., 1954.

Havlicek, F. I.

Yugoslavia/Optics - Optical Technique, K-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35674

Author: Havlicek, F. I.

Institution: "J. Stefan" Physics Institute, Ljubljana, Yugoslavia

Title: On Simple Projection Lens

Original
Periodical: Bull. scient. Conseil acad. RPFY, 1954, 2, No 1, 10-11; German

Abstract: Analysis of the problem of calculating objectives for the projection of lantern slides measuring 24 x 36 mm, consisting of 2 thin lenses. The author starts in the construction of such lenses from a corresponding distribution of the refracting power of both lenses and of their radii of curvature. A diagram of the Argentieri parameters is given for the variations of the values of the first lens from zero to 2.5 and of the second lens from -2 to -6, in which the Seidel sums are given for the spherical aberration, for the meridional curving of the image field, and for the distortion of the image.

Card 1/1

Yugoslavia/Optics - Optical Techniques, K-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35675

Author: Havlicek, F. I.

Institution: "J. Stefan" Physics Institute, Ljubljana, Yugoslavia

Title: Design of Petzval Type Objective

Original
Periodical: Bull. scient. Conseil acad. RPFY, 1954, 2, No 1, 11; German

Abstract: Description of the design of an objective and a table of the structural elements of a Petzval objective for certain specified parameters (index of refraction of the glasses, etc).

Card 1/1

Practical Application of the Wave Theory in Optical Computations
6924:

Havlíček, F. L. Zur praktischen Anwendung der Wellentheorie bei optischen Rechnungen. Bull. Internat. Acad. Yougoslave. Cl. Sci. Math. Phys. Tech. 5 (1955), 5–7.

If the spherical aberration of an axially symmetrical optical system is $\Delta s^1 = \sum_{n=1}^{\infty} a_n u^n$, where $u = \tan \theta$ and θ is the angle of inclination of an incident ray, then J. Picht [Optische Abbildung, Vieweg, Braunschweig, 1931, p. 164; Z. Instrumentenkunde 51 (1931), 77–81] has shown that the related wave surface in image space is given by

$$\xi = -2b_1 + c_1 \cos \theta + \sum_{n=1}^{\infty} b_n u^n,$$

$$\eta = 2 \cos \phi \{ c_3 \sin \theta - \sum_{n=1}^{\infty} n b_n u^n / (2n-1) \},$$

$$\zeta = 2 \sin \phi \{ c_3 \sin \theta - \sum_{n=1}^{\infty} n b_n u^n / (2n-1) \},$$

where c_1, c_2, c_3 are arbitrary constants and $2nb_n = (2n-1)(a_{n-1} - b_{n-1})$ is a recursion formula for the coefficients (reviewer's notation). The present paper contains a new proof of this result and an application showing that a particular Kirchhoff diffraction integral can be evaluated in terms of a well-known transcendental function. There are too many misprints in the paper to list here, but they are fortunately evident from the above reference.

G. L. *Walker* (Southbridge, Mass.)

HAVLICK, E. I.

YUGO.

535.61

7884.   A criterion for achromats.   E. I. HAVLICK.
Letter in *Bull. acl. Ceus. Acad. Yougoslave, 2, No. 2,*
42-3 (*April, 1955*) In German.
   A graph is given connecting the focal length of an
achromat and its relative aperture, for either terrestrial
or astronomical standards of achromatism. These
standards are based upon the wavefront errors for a
number of spectral lines, and the method of calcula-
tion is briefly described.   R. W. ttst

HAVLICEK, F.

HAVLICEK, F. On a neutron generator for 140 kv. In German. p. 65

Vol. 2, May 1955
REPORTS
SCIENCE
Ljubljana

So: East European Accession, Vol. 6, No. 3, March 1957

HAVLICEK, F. I.

Distr: 4E3d
2769
ON THE ANGULAR DISTRIBUTION OF THE PARTICLES
OF PHOTODISINTEGRATED CARBON. F. L. Havlicek and.
R. Doboršek. "J. Stefan" Inst. Repts. (Ljubljana) 1, 75-6
(1955) May.

 Using a heuristic principle, there was selected a special
kind of traces in photoplates of the disintegrating particles
of carbon. Diagrams of the angular distribution of these
are drawn. (auth)

HAVLICEK, F. I.

Photodisintegration of carbon-12 and oxygen-16. F. L. Havlíček and B. Duhovíček (J. Stefan Inst., Ljubljana, Yugoslavia). *Phys. Rev.* 100, 1355-7 (1955).—The distribution in energy and angle of the α-particles from 485 C^{12} and 57 O^{16} disintegrations induced by bremsstrahlung of 27- and 33-m.e.v. max. energy were detd. These measurements yield information on the energy levels in Be^8, C^{12}, and O^{16}.

G. M. Petty

HAVLIČEK, I. I

... ...
second order differential equation which ... ...
formed into the Bessel equation and which has solution ...
similar ... the equations describing in the ... ...
gravitation.   A. H. Taub (Urbana, Ill.).

HAvLiceK, F. I.

YUGOSLAVIA/Optics - Optical Technology   K-4

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11628

Author   : Havlicek, F.I.
Inst   : Institute "J. Stefan" Ljublijana, Yugoslavia
Title   : On Extreme Wide Angle Lenses

Orig Pub : Bull. Scient. Conseil acad. RPFY, 1956, 3, No 2, 38-39

Abstract : Constructive elements are given for two wide angle lenses with
           fields of view of 225 and 360°. Each consists of a negative
           meniscus and positive lens. The first is used with a plane-
           parallel light filter placed ahead of the image to reduce the
           influence of chromatic aberration.

Card   : 1/1

HAVLICEK, F.

Systematic research on microobjectives III. Microobjectives with higher apertures.
p. 117
(GLASNIK, Vol. 7, No. 4, 1956 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
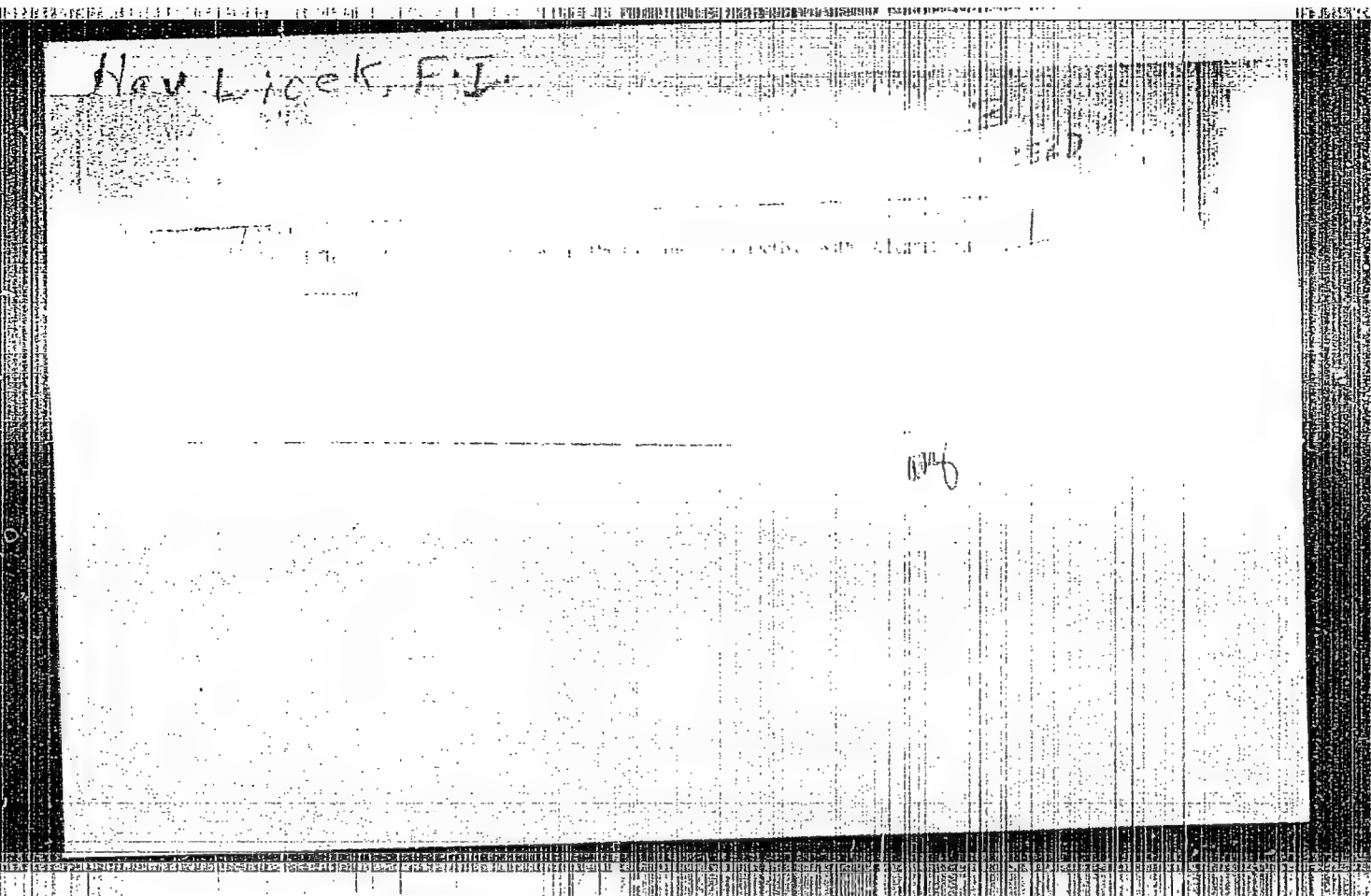Uncl.

Havlicek, F.I.

536.75

5828.   AN APPROXIMATE ENTROPY DIAGRAM FOR
URANIUM HEXAFLUORIDE.   F.I.Havlíček.
Z. Naturforsch., Vol. 11a, No. 1, 90 (1956). In German.
     The temperature—entropy chart presented is based on
data reported by Katz and Rabinowitsch (Nat. Nucl. Energy
Series VIII-5, New York, 1951) extrapolated using the princi-
ple of corresponding states. The chart is intended to provide
information required in the uranium-235 enrichment process
using a de Laval nozzle, as suggested by Becker, Bier and
Burghoff (Abstr. 9038/1955).   A.Gelbtuch

Havlicek, F.I.

HAVLICEK, F. I.

Determination of the isotopic ratio uranium-238/uranium-234 with α-spectrometry. F. I. Havliček (Stefan Inst., Ljubljana, Yugoslavia). Nuovo cimento 11, 198-211 (1959)(in German).—An α-spectrometer is described for the above detn. and its accuracy demonstrated by using UF_6.
Norman E. Pickering.

Distr: 4E3d/4E3c

HAVLICEK, F. I.

19   3

(γ, α) photoeffect in Ba, Ce, Nd, and Sm.   F. I. Havliček
(J. Stefan Inst., Ljubljana, Yugoslavia).   *Nuovo cimento*
13, 009-73(1959)(in German).—The effects of 30-m.e.v.
betatron γ-rays on coatings of the nitrate salts of the α-
emitters Nd and Sm were investigated, as well as on similar
coatings of their decay products Ba and Ce.   The coatings
were applied to photographic film and α-tracks counted,
measured, and their angles detd.   Spectra of the α-particles
ejected by the γ-rays were given for Nd and Sm.
                                        N. A. Frigerio

J K

HAVLICEK, Franz) Johannes, Dr. Dipl. Ing.: Einfuehrung in das Korrigieren
optischer Systeme. Mit 38 Abb. -- Stuttgart: Wissenschaftliche Verl. Ges.
1960. 90 S. 8° - Optik u. Feinmechanik in Einzeldarstellungen. Bd 3. * 18 G 3
Mit Literaturverzeichnis S. 147-154.

SO: DEUTSCHE NATIONALBIBLIOGRAPHIE, A, 3 Sep 60, p. 2433. Unclassified.

HAVLICEK, J.

Application of the group method in the economic analysis of machine-tractor
stations. In Russian. p. 113. (ZA SOTSIALISTICHESKUIU SELSKOKHOZIAISTVENNUIJ
NAUKU. SERIIA 3: EKONOMICHESKAIA. FOR SOCIALIST AGRICULTURAL SCIENCE. SERIES 3:
ECONOMICS, Vol. 6, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

HAVLICEK, J.
LJUBCHANSKA, J.

Comments on the determination of the life and depreciation of
agricultural machinery. p. 765.

Praha. Ceskoslovenska akademie zemedelskych ved. SBORNIK ZEMEDELSKA
EKONOMIKA. Praha, Czechoslovakia. Vol. 5, no. 10, 1959

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2
Feb. 1960 uncl.

Havlicek, J.

Havlicek, J. A unified system of measures in the USSR. p. 56.

Vol. 7, no. 1, Jan. 1957
STROJIRENSTVI
TECHNOLOGY
Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
                              No. 5

HAVLICEK, J.; TRISKA, J.

Kabely a vodice (Cables and Conductors); a book review.

P. 453. (ENERGETIKA.) (Praha, Czechoslavakia) Vol. 7, No. 8, Aug. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, May 1958

HAVLICEK, J.

Mechanization of control in the technical control departments. p. 252.

(Nb). A few interesting items at the Leipzwig Fair. p. 261.

(Technicka Prava. Vol. 9, no. 4, Apr. 1957. Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

KRIZ, Jaroslav; HAVLICEK, Jaromir; CENEK, Milos

Injections of absolute ethyl alcohol into the spinal canal, as
described by Dogliotti, to alleviate pain caused by malignant tumors
of the female genitalia. Cesk. gyn. 23[37] no.5:390-392 July 58.

1. I. por. gyn/ klin. MU v Brne, prednosta prof. Dr. L. Havlasek.
J. K., I. por. gyn. klin., Brno.
         (GENITALIA, FEMALE, neoplasms
              incurable, pain ther. by ethyl alcohol inject. into spinal
              canal (Cz))
         (PAIN, therapy
              ethyl alcohol inject. into spinal canal for pain in incurable
              tumors of female genitalia (Cz))
         (ALCOHOL, ETHYL, therapeutic use
              pain in incurable tumors of female genitalia. (Cz))

PAVLIK, M., MUDr.; KOCI, V., M.

Incidence of rheumatic carditis and its sequelae in autopsy material. I. 1961 and 1962. Cas. lek. cesk. 103 no.34:929-934 21 Ag '64.

1. Hlavuv I patologickoanatomicky ustav fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. B Bodnar) a Ustav epidemiologie a mikrobiologie v Praze (prednosta prof. dr. K. Raska).

DUPAL, Yaroslav [Dupal, Jaroslav]; GAVLICHEK, Yaromir [Havlicek,
        Jaromir]; STOCHES, Ferdinand [Stoces, Ferdinand]; BARTUNEK,
        Iosif [Bartunek, Josef]; LEVITMAN, Ye.A.[translator];
TULUPNIKOV, A.I., red.; SUMNIK, Z.A., red.; IL'YUSHENKOVA,
T.P., tekhn. red.

[Problems in determining the effectiveness of agricultural
production in Czechoslovakia]Voprosy opredeleniia effektiv-
nosti sel'skokhoziaistvennogo proizvodstva v Chekhoslovakii.
Pod red. A.I.Tulupnikova. Moskva, Gosstatizdat, 1962. 178 p.
Translated from the Czech.   (MIRA 15:11)
1. Nauchno-issledovatel'skiy institut narodnokhozyaystvennogo
planirovaniya pri Gosudarstvennoy planovoy komissii, Chekhoslo-
vakiya (for Dupal, Gavlichek). 2. Gosudarstvennaya planovaya
komissiya, Chekhoslovakiya (for Bartunek).
        (Czechoslovakia—Agriculture—Economic aspects)

HAVLICEK, Jaroslav, inz. CSc.

Some possibilities of reducing the spare part consumption in keeping agricultural machines in operating condition. Zemedel t in 10 no.5: 515.55. S '64.

1. Chair of Repair Services, Faculty of Mechanization, Higher School of Agriculture, Prague. Head of the Chair (dr ...r) F.Korous.

HAVLICEK, J.

Main trends and lines of hospital construction. Cesk. hyg. 8
no.8:475-480 S '63.

1. Vyzkumny ustav organizace zdravotnictvi, Praha.
        (HOSPITAL PLANNING AND CONSTRUCTION)

HAVLICAK, J.

DOHNAL, Vlastimil, Ing. arch.; HAVLICEK, Jaroslav, MUDr

Work and objectives of the department of hospital building of the university school of architecture and building in Praha. Cesk. nemoc. 22 no.5:122 22 Sept 54.
(HOSPITALS
construction, work of department of architecture & building, Praha)

HAVLICEK, Jar., MUDr.

Task and function of the department for infectious diseases of a
hospital. Cesk, nemoc. 22 no.6:125-129 25 Nov 54.

1. VUOZ, Praha
        (HOSPITALS
            communicable dis. department)

HAVLICEK, Jaroslav, MUDr.

Considerations on the organization of roentgenological services in
Czechoslovakia. Cesk. zdravot. 4 no.5:247-255 May 56.

1. Vyzkumny ustav organisace zdravotnictvi v Praze.
    (ROENTGENOLOGY,
        in Czech. (Cz))

HAVLICEK, Jaroslav, MUDr.

Structure of the network of hospitals in Czechoslovakia.   Cesk.
zdravot. 4 no.7:384-388 July 56.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
    (HOSPITALS,
        hosp. network in Czech. (Cz))

HAVLICEK, Jaroslav, MUDr.

Development of typing of a regional medical center in Czechoslovakia.
Cesk. zdravot. 4 no.11:629-635 Nov 56.

1. Vyzkumny ustav organisace zdravotnictvi v Praze.
   (PUBLIC HEALTH,
      regional centers in Czech. (Cz)/

HAVLICEK, Jaroslav, MUDr.

Problem of classification of medical establishment and its
relation of development of their functions. Cesk. zdravot.
4 no.12:693-695 Dec 56.

1. Vyzkumny ustav organisace zdravotnictvi v Praze.
    (HOSPITALS,
        classif. & demarcation of funct. in Czech. (Cz))

HAVLICEK, Jaroslav

       Infectious wards in hospitals. Cesk. zdravot. 5 no.10:557-585 Oct 57.

1. Vyzkumny ustav organisace zdravotnictvi v Praze; reditel: R. Palec.
       (HOSPITALS,
           infect. wards (Cz))
       (COMMUNICABLE DISEASES,
           infect. wards in hosp. (Cz))

HAVLICEK, Jar.

Problem of construction of faculty hospitals in Czechoslovakia.
Cas. lek. cesk. 96 no.23:693-701 7 June 57.

1. J. H., Praha 2, Stepanska 1.
    (HOSPITALS
        construction of faculty hosp. in Czech., problems (Cz))

HAVLICEK, Jaroslav, MUDr.

Institutional care the chronically ill in Czechoslovakia. Cesk. zdravot. 6 no.4:155-158 Apr 58.

1. Vyzkumny ustav organisace zdravotnictvi v Praze.
        (CHRONIC DISEASE.
              institutional care of chronically ill patients in Czech. (Cz))

HAVLICEK, Jaroslav, MUDr.

Low investment type of district hospital. Cesk. zdravot. 6 no.6:273-
275 June 58.

1. Vyzkumny ustav organisace zdravotnictvi v Praze.
     (HOSPITALS,
          district. hosp. construction in Czech (Cz))

HAVLICEK, Jaroslav, MUDr.

District health centers. Cesk. zdravot. 6 no.7:361-367 July 58.

1. Vyzkumny ustav organisace zdravotnictvi v Praze.
        (PUBLIC HEALTH
                in Czech., district, health centers (Cz))

HAVLICEK, Jaroslav

Problems in standardization factory health services. Cesk. zdravot.
6 no.10:583-589 Oct 58.

1. Vyzkumny ustav organisace zdravotnictvi, Praha
        (INDUSTRIAL HYGIENE
                in Czech., standardization of factory health serv. (Cz))

HAVLICEK, J.

Report on the Stockholm Symposium of the World Health Organization concerning
the function of hospitals held in 1958. p. 332.

CESKOSLOVENSKE ZDRAVOTNICTVI.   Praha, Czechoslovakia.   Vol. 7, no. 5, July
(i.e.June) 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

HAVLICEK, Jaroslav, MUDr.

Discussion on the standardization of industrial establishment. Pracovni
lek. 11 no.1-2:92-94 Feb 59.

1. Pracovnik Vyzkumneho ustavu organizace zdravotnictvi v Praze.
        (INDUSTRIAL HYGIENE,
                in Czech., organiz. (Cz))

HAVLICEK, Jaroslav, MUDr.

Problems of the further development of hospitals. Cesk. zdravot.
7 no.5:246-251 Junr 59.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
    (HOSPITALS
        in Czech., funct. & organis. (Cz))

HAVLICEK, Jaroslav, MUDr.

Problem of the centralization of laboratory services in hospitals
and polyclinics. Cesk.zdravot. 8 no.6:315-318 Je '60.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
        (LABORATORIES)
        (HOSPITALS)

HAVLICEK, Jaroslav, MUDr.

Analysis of the operation of hospitals and polyclinics constructed
in accordance with established standards. Cesk.zdravot.8 no.12:
685-697 D '60.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
        (HOSPITAL PLANNING AND CONSTRUCTION)

HAVLICEK, Jaroslav, MUDr.

Studies on the profile of patients in hospitals of Czech districts.
Cesk. zdravot. 9 no.6:328-343 '61.

1. Vyzkumny ustav organizace zdravotnictvi, Praha.
(HOSPITAL PATIENTS)

VITVAR, inz.; BLATA, inz.; HAVLICEK, inz.; NEJEZCHLEB, KRAL, REICHL, J.;
HABRINA, J.; HOLAS; KORAN, Inz.; DOUPOVEC, Inz.

Conference of the constructors of the technological part of
the Orlik Waterworks. Energetika Cz 13 no.12:671-674 D '63.

1. Ceskomoravska-Kolben-Danek (for all except Holas, Koran,
Doupovec).
2. Vodni elektrarny Orlik (for Holas).
3. Leninovy zavody Plzen (for Koran).
4. CED (for Doupovec).

HAVLICEK, Jaroslav; PACAL, Zdenek

Arsenic in the mine water from Staroceske pasmo, (Kank near Kutna Hora). Cas min geol 7 no.3:260-268 '62.

HAVLICEK, J., MUDr.

Basic problems of the modernization of our health institutions,
especially hospitals. Cesk. zdrav. 10 no.10:489-496 '62.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
                    (HOSPITALS)

HAVLICEK, Jaroslav, Csc., inz.; SWIETOCHOWSKI, T., mgr inz. [translator]

Regeneration of machine parts by electrolytic iron plating.
Techn motor 13 no. 3: 94-99 Mr '63.

1. Katedra Remontow, Wydzial Mechaniczny, Vysoka skola
    zemedelska, Praha.

HAVLICEK, Jaroslav, inz. CSc.

        Analysis of the present method of evaluating the useful-
        ness of damaged machine part renovation. Zemedel tech
        10 no. 3:197-212 Mr '64.

        1. Department of Repair Services of the Faculty of
            Mechanization, Higher School of Agriculture, Prague.
            Head of the Department: inz. F. Korous.

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ACCESSION NR: AP5015920

surface layer reduces pressure stress caused by rolling or ball-burnishing, but has
an adverse effect on heat fatigue. X-ray examination after skin layers had been
annealed in argon showed recrystallization to a depth of 4 or 5 µ. Recrystallization
occurs in the first few hours of operation and forms a fine-grain structure with lower
lattice values. Another contrast between surface layers and blade core is a higher
diffusion rate and a loss of Cr, Ti, and Al from the skin. X-ray measurements were
also made on blades made of EI 617 at various stages of manufacture to find the
residual internal stress and crystal lattice values after final annealing in argon at
950C; the results are tabulated. One conclusion given is that a process of electrolytic
buffing should be developed as the final operation in producing turbine blades in order
to eliminate skin layer deformation when the blade is in operation. Orig. art
has: 5 figures and 5 tables.

ASSOCIATION: none

SUBMITTED: 00   ENCL: 00   SUB CODE: MM, PR

NO REF SOV: 004   OTHER: 000

Card 2/2

HAVLICEK,J., MUDr.

Specialized care and some of its problems. Cesk. zdrav. 12
no.5:231-239 My'64

1. Vyzkumny ustav organizace zdravotnictvi v Praze.

HAVLICEK, Jaroslav, inz., C.Sc.

Less known methods of machine part renovation. Sil doprava 10
no.12:4-6 D '62.

1. Vysoka skola zemedelska, katedra opravarenstvi, Praha.

HAVLICEK, Jiri

Statistical survy of acute otitis therapy in the field. Cesk. otolar.
7 no.4:206-209 Aug 58.

1. ORL oddeleni polikliniky v Praze 14.
        (OTITIS, ther.
                penicillin in acute otitis, statist. (Cz))
        (PENICILLIN, ther. use
                otitis, acute, statist. (Cz))

HAVLICEK, Jiri

Czechoslovakian standard for antistreptolysin O. Cesk.epidem.
mikrob.imun.10 no.1:18-23 Ja '61.

1. Ustav epidemiologie a mikrobiologie v Praze.
        (ANTISTREPTOLYSIN)

HAVLICEK, J.; LUKES, R.

Methods and results of immunological surveys for antistrepto-
lysin O in the population. Cesk. epidem. 12 no.3:169-179
My '63.

1. Ustav epidemiologie a mikrobiologie v Praze.
            (ANTISTREPTOLYSIN)   (STREPTOCOCCAL INFECTIONS)

HAVLICEK, Jiri, inz.

Methods of calculating the rolling pressure in cold rolling.
Hut.listy 18 no.2:99-101 F '63.

1. Zavody V.I. Lenina, Plzen.

HAVLICEK, Josef, inz., dr., C.Sc.

Josef Francek; an obituary. Inz stavby 10 no.3:119 Mr '62.

HAVLICEK, Josef, inz. dr. CSc.

International Confernece on Soil Mechanics and Foundation
Engineering in Budapest. Stav cas   12   no. 4:257-258
'64.

1. Institute of Theoretical and Applied Mechanics, Czechoslo-
vak Academy of Sciences, Prague.

HAVLICEK, J., inz. dr., C.Sc.

Soil resistance against shearing. Inz stavby 11 no.3:81-86 Mr '63.

1. Ustav teoreticke a aplikovane mechaniky, Ceskoslovenska akademie ved.

L 44118-66   EWP(w)/EWP(j)/T   WW/RM

ACC NR: AP6005485 (A)   SOURCE CODE: CZ/0078/66/000/001/0010/0010

AUTHOR: Bures, Jiri (Engineer ;Brno); Bartek, Ladislov (Engineer; Brno) 27,
Havlicek, Jiri (Engineer; Brno)   B

ORG: none

TITLE: Highly conductive organometallic compounds, CZ Pat. No. PV 7233-61

SOURCE: Vynalezy, no. 1, 1966, 10

TOPIC TAGS: organonickel compound, organocopper compound, electric
conductivity

ABSTRACT: An Author Certificate has been issued for a highly conductive
material made of amalgamated nickel or copper particles in either stick,
chip, or powder form, bonded with an agent with low conductivity. The
weight-percentage ratio of metallic particles may range from 40—99%,
that of mercury to 25%, and that of the binder from 0.1—60%. Binders
such as polyester resins or nitrocellulose may be used.
                                                              [KP]

SUB CODE: 1T, 09/   SUBM DATE: 07Dec61

Card 1/1

HAVLICEK, KAREL

Havlíček, Karel. Developable surfaces in differential line geometry. Rozpravy II. Třídy České Akad. 53, no. 42, 24 pp. (1943). (Czech)
A German summary appeared in Acad. Tchèque Sci. Bull. Int. Cl. Sci. Math. Nat. 44, 581–583 (1943); these Rev. 8, 488.

Source: Mathematical Reviews,   Vol 9   No.8

HAVLICEK, K.

Havlíček, K. Abwickelbare Fläche in der differentialen Liniengeometrie. Acad. Tchèque Sci. Bull. Int. Cl. Sci. Math. Nat. 44, 581–583 (1943).

This is a summary of a paper in which developable ruled surfaces are studied following the methods and symbolism of Hlavatý's "Differentielle Liniengeometrie" [Noordhoff, Groningen, 1945; these Rev. 8, 346]. The principal theorem states that a necessary and sufficient condition that a ruled surface shall be developable is that its K-map shall be a K-minimal curve, i.e., a curve for which

$$A_{\kappa\lambda}\frac{d\zeta^{\kappa}}{dt}\frac{d\zeta^{\lambda}}{dt}=0,$$

where ζ^{κ} $(\kappa=1, 2, 3, 4)$ are the independent parameters of the line space and the tensor $A_{\kappa\lambda}$ is defined by Hlavatý [p. 472]. The K-minimal curves are shown to be of two types and the corresponding developable surfaces are studied.   A. Schwartz (State College, Pa.).

Source: Mathematical Reviews,   7(3)   No.

Havlíček, Karel

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Notations: R_q is a q-dimensional linear space; V_1 is a curve in R_n with the parametric representation $\mathbf{r}=\mathbf{r}(s)$; $\rho_1, \cdots, \rho_{n-1}$ are the radii of curvature of V_1; $\Sigma_\nu(\Sigma,q)$ is a ν-dimensional hypersphere (having a contact of order q with V_1); Σ_q^{q+1} is a q-dimensional osculating hypersphere; $\mathbf{n}_1, \mathbf{n}_2, \cdots, \mathbf{n}_{n-1}$ are mono-, bi-, tri- $\cdots$ normal unit-vectors at a point of V_1; only regular points of V_1 are considered such that $(d\mathbf{r}/ds)^2\neq 0$. The author proves that the centers of all the Σ_{n-1} lie in an R_{n-q} having the equation $\mathbf{r}=\sum_{k=1}^{q}c_k\mathbf{u}_k+\sum_{i=1}^{n-q}c_i\mathbf{n}_i$, where the c_i are independent parameters, and the constants c_i^k (the coordinates of the center of Σ_{q-1}^q) are determined as functions of the $d^k\rho_i/ds^k$ by linear equations. Hence the radius of Σ_{q-1}^q is given by $R_q^2=\sum_{i=1}^{q}(c_i^q)^2$. A necessary and sufficient condition that V_1 should lie on a Σ_{n-1} is that $\rho_1, \cdots, \rho_{n-1}$ satisfy the differential equation $a_n-a_{n-1}=0$, where the a_i are defined by the recurrent relations $a_0=0$; $a_1=\rho_1$; $a_i=\rho_i(a_{i-1}/ds+a_{i-2}\rho_i/\rho_{i-1}$ $(i=2,3,\cdots,n-1)$, $a_n=-\rho_{n-2}da_{n-1}/ds$. A V_1 for which $\rho_i=$ constant $\neq 0$ $(i=1,2,\cdots,n-1)$ is a hypercircle, i.e., it lies on a Σ_{n-1}, if and only if n is even. *E. Egerváry*

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Soit $\rho_{ik}(t)$ les coordonnés plückeriennes des droites
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quand et seulement quand les dérivées $d\rho_{ik}/dt$ sont les
coordonnées de la droite. La surface $d\rho_{ik}(t)/dt$ est la surface
dérivée de la surface ρ_{ik} primitive.

On voit qu'il existe une infinité des surfaces dérivées de
la surface S et une infinité des surfaces primitives de la
surface donnée.

L'auteur établit les théorèmes: 1) La courbe de re-
broussement de la surface développable est l'asympto-
tique de la surface dérivée. 2) La surface des tangentes
d'une courbe asymptotique de la surface réglée S ou la
surface primitive de la surface S.

On voit que les droites des surfaces primitives (déri-
... de la surface donnée appartiennent à une congruence
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